10/541222

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY Mr. Masao OKABE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY No.602, Fuji Buld, 2-3, Marunouchi, 3-chome, (PCT Rule 43bis.1) Chiyoda-ku, Tokyo, 1000005, JAPAN Date of mailing 20. 7. 2004 (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below CFL00345WO International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/00407124.03.2004 26.03.2003 International Patent Classification (IPC) or both national classification and IPC Int.Cl 7 H01M 4/02 H01M10/40 H01M 4/38**Applicant** CANON KABUSHIKI KAISHA 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer 4X 9351 **Japan Patent Office** CHIKAKO AOKI Telephone No. +81-3-3581-1101 Ext. 3477 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan



Internal application No.
PCT/JP2004/004071

Box No. I	Basis of the opinion
which i	gard to the language, this opinion has been established on the basis of the international application in the language in it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
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	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:
a. type	of material
	a sequence listing
	table(s) related to the sequence listing
h form	nat of material
	in written format
	in computer readable form
c. time	of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	ional comments:
4. Addit	ional comments.
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· .	Lack of unity of invention
1. In res	ponse to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
<b>V</b>	paid additional fees
	paid additional fees under protest
	not paid additional fees
	Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to dditional fees.
3. This Auth	ority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
Со	nplied with
The ageneration of the agenerati	separate inventions are not so linked as to form a single al inventive concept for the following reason: same or corresponding matters(A) between the inventions of Nos. 1-9,11-19 and claims Nos. 10-19 are "An electrode al for a lithium secondary battery, comprising particles is silicon as a main component."  yer, after taking the prior art into consideration, it apparent that the matters(A) were mentioned in a document
whole over technical	01-273892 A (SANYO ELECTRIC CO., LTD.), 2001.10.05, the document. Therefore, the matters(A) makes no contribution the prior art. equently, there is no same or corresponding "special ical features" Therefore, there is no technical ionship between the inventions of claims Nos. 1-9,11-19 and so Nos. 10-19.
whole over technical	document. Therefore, the matters(A) makes no contribution the prior art. equently, there is no same or corresponding "special ical features" Therefore, there is no technical ionship between the inventions of claims Nos. 1-9,11-19 and
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whole over to Consect technical aims	document. Therefore, the matters(A) makes no contribution the prior art. equently, there is no same or corresponding "special ical features" Therefore, there is no technical iconship between the inventions of claims Nos. 1-9,11-19 and s Nos.10-19.



Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Statement 2-3,5,7-12,15,19 Claims Novelty (N) 1,4,6,13-14,16-18 Claims 2-3,5,7-12,15,19 Inventive step (IS) Claims YES 1,4,6,13-14,16-18 Claims 1-19 Industrial applicability (IA) Claims Claims

2. Citations and explanations D1: JP 2002-42805 A

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Claim 1,4,6,13-14,16-18

The subject matter of claims 1,4,6,13-14 and 16-18 does not meet the requirement of n ovelty.

## D1 discloses that;

An electrode material for non-aqueous electrolyte secondary battery comprises particle s of solid state alloy having silicon as a main component, wherein the particles of the sol id state alloy have a amorphous material comprising TiSi phase and Si phase.

The particles of the solid state alloy have an average particle diameter of 0.8  $\mu$  m. A non-aqueous electrolyte secondary battery comprises an electrolyte, a positive electrode and a negative electrode using an electrode comprising the above electrode material, graphite as a conductive auxiliary material, a binder and a current collector.



Internal application No.
PCT/JP2004/004071

	INTERNATIONAL	PCT/JP2004/004071			
ox No. VI	Certain documents c	ited			
Certain	published documents (R	ules 43bis.1 and 70.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/ye		date (valid claim)
JP 20 E,X	003-109590 A	11.04.2003	28.09.200	1	
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Non-wr	ritten disclosures (Rules	43bis.1 and 70.9)		Date of wr	itten disclosure
	Kind of non-written di		f non-written disclosure (day/month/year)	referring to not	n-written disclosu nonth/year)
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